

Title (en)

FLUORO-CHEMICAL WATER AND OIL REPELLENTS

Title (de)

FLUORCHEMISCHE WASSER- UND ÖLABWEISENDE ZUSAMMENSETZUNG

Title (fr)

SUBSTANCES HYDROFUGES ET HYDROPHOBES FLUORÉS

Publication

**EP 1203037 B1 20060301 (EN)**

Application

**EP 00952672 A 20000809**

Priority

- US 0021719 W 20000809
- US 14802599 P 19990810
- US 59632200 A 20000619

Abstract (en)

[origin: US6479612B1] A polymer having at least one urea linkage derived by contacting (1) at least one polyisocyanate, or mixture of polyisocyanates, (2) at least one fluorocarbon alcohol, fluorocarbon thiol or fluorocarbon amine, (3) at least one straight or branched chain alcohol, amine or thiol, and (4) at least one alcohol containing a sulfonic acid group or its salt, and then (5) optionally at least one linking agent useful for imparting oil repellency and water repellency to substrates.

IPC 8 full level

**C08G 18/08** (2006.01); **C08G 18/38** (2006.01); **C08G 18/72** (2006.01); **C09D 175/00** (2006.01); **C09K 3/18** (2006.01); **C14C 9/00** (2006.01)

CPC (source: EP KR US)

**C08G 18/0828** (2013.01 - EP US); **C08G 18/30** (2013.01 - KR); **C08G 18/3812** (2013.01 - EP US); **C14C 9/00** (2013.01 - EP US); **Y10T 428/31558** (2015.04 - EP US); **Y10T 428/31562** (2015.04 - EP US); **Y10T 428/31565** (2015.04 - EP US); **Y10T 428/31598** (2015.04 - EP US); **Y10T 442/2172** (2015.04 - EP US); **Y10T 442/2189** (2015.04 - EP US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**WO 0110921 A1 20010215**; AT E318849 T1 20060315; AU 6532700 A 20010305; AU 764359 B2 20030814; BR 0013329 A 20020416; CA 2378229 A1 20010215; CA 2378229 C 20091006; CN 1157430 C 20040714; CN 1370184 A 20020918; DE 60026319 D1 20060427; DE 60026319 T2 20061130; EP 1203037 A1 20020508; EP 1203037 B1 20060301; JP 2003506537 A 20030218; JP 4790951 B2 20111012; KR 100624633 B1 20060919; KR 20020030092 A 20020422; TW I231818 B 20050501; US 6479612 B1 20021112

DOCDB simple family (application)

**US 0021719 W 20000809**; AT 00952672 T 20000809; AU 6532700 A 20000809; BR 0013329 A 20000809; CA 2378229 A 20000809; CN 00811692 A 20000809; DE 60026319 T 20000809; EP 00952672 A 20000809; JP 2001515726 A 20000809; KR 20027001763 A 20020208; TW 89114611 A 20000721; US 59632200 A 20000619